

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-163560

(43)Date of publication of
application : 07.06.2002

(51)Int.Cl. G06F 17/60
G06F 12/00
G10K 15/02

(21)Application 2000- (71)Applicant : YAMAHA CORP
number : 359742

(22)Date of filing : 27.11.2000 (72)Inventor : ITO SHINICHI
KAMIYA DAIKI
ASAHI YASUHIKO

(54) STORAGE MEDIUMMERCHANTISE ORDERING METHOD AND DEVICEAND STORAGE MEDIUM WHICH STORES MERCHANTISE ORDERING PROGRAM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a merchandise ordering method which is able to select merchandise suited for customers offline.

SOLUTION: Preferred music data is selected offline without connecting with networkwhen searching and downloading the preferred music data from music data stored on a music data distribution server. A hyper text file storage unit stores a number list described in hyper text format. Each number is linked to URLs on a profile screen 9bwhich specifies music data on a number search and display screen generation unit 9 of the server. When a description related to the preferred number is clickedtargeted URL linked to the number is sent to the network through a communication control unit 4and this screen is sent.

CLAIMS

[Claim(s)]

[Claim 1]When a user accesses a server on a network and orders goodsA file for using for a merchandise ordering method which progresses to a procedure of an order from a display of a screen which specifies said goodsThe account of ** about limited goods which are the recorded recording media in which computer reading is possibleaccess said server and form said some of goods of plurality which can be ordered. this -- two or more specific information which specifies

limited goods which make a part respectivelyOr said two or more specific information and related information on a display thing are described by said file with a form in which a hyperlink is possibleA recording medium characterized by what an address of said screen which specifies said goods specified as a display of said each specific information and/or said related display thing by said specific information links.

[Claim 2]Have said related display thing and two or more kinds of display modes showing the characteristic of goods specified by said each assigned specific information to said each specific information. Said at least one related display thing in which said display modes differ is assignedThe recording medium according to claim 1 characterized by what information on said related display thing is described by said file with a form in which a hyperlink is possibleand an address of said screen which specifies said goods specified by said specific information assigned to a display of said related display thing links.

[Claim 3]The recording medium according to claim 1 or 2 characterized by what information on a display thing for network search is described by said file with a form in which a hyperlink is possibleand an address of a screen which carries out network search of said goods to a display of said display thing for network search links.

[Claim 4]Information on a display thing for upgrade is described by said file with a form in which a hyperlink is possibleA recording medium given in any 1 paragraph of claims 1 thru/or 3 characterized by what an address for downloading the new file which updated the contents of said file links to a display of said display thing for upgrade.

[Claim 5]When a user accesses a server on a network and orders goodsA step which is a merchandise ordering method which progresses to a procedure of an order from a display of a screen which specifies said goodsand makes said file read from a recording medium of a statement to any 1 paragraph of claims 1 thru/or 4Presenting of said specific information displayed as a step which displays said two or more specific informationor specific information of said plurality and a related display on a screenOr a step as which a related display is made to choose on said screen and presenting of said selected specific informationOr a merchandise ordering method having a step to which makes said screen where an address was linked without a selectedrelated display require of said serverdisplay it onand a procedure of an order is made to follow it from said screen.

[Claim 6]When a user accesses a server on a network and orders goodsA step which is the recording medium with which a goods order program which progresses to a procedure of an order from a display of a screen which specifies said goods was recordedand makes said file read from a recording medium of a statement to any 1 paragraph of claims 1 thru/or 4Presenting of said specific information displayed as a step which displays said two or more specific informationor specific information of said plurality and a related display on a screenOr a step as which a related display is made to choose on said screen and presenting of said selected specific informationOr a recording medium with which a goods order program for

making a computer perform a step to which makes said screen where an address was linked to a selectedrelated display require of said serverdisplay it onand a procedure of an order is made to follow it from said screen was recorded.

[Claim 7]A commodity order device which progresses to a procedure of an order from a display of a screen which specifies said goods when a user characterized by comprising the following accesses a server on a network and orders goods.

A recording medium given in any 1 paragraph of claims 1 thru/or 4.

A reading means to which said file is made to read from said recording medium.

A display control means which displays said two or more specific informationor specific information of said plurality and a related display on a screen.

An input control means as which presenting of said displayed specific information or a related display is made to choose on said screenand presenting of said selected specific informationOr a hyperlink control means to which makes said screen where an address was linked to a selectedrelated display require of said serverdisplay it onand a procedure of an order is made to follow it from said screen.

[Claim 8]When a user accesses a server on a network and orders goodsA file for using for a merchandise ordering method which progresses to a procedure of an order from a display of a screen which specifies said goodsThe account of ** two or more specific information which is the recorded recording media in which computer reading is possibleand specifies two or more goodsrespectivelyand related information on a display thingWith a form in which a hyperlink is possibleit is described by said file and said related display thingHave the 1st and 2nd display mode at leastand to said each specific information. Said specific information to which said at least one related display thing in which said display modes differ is assigned toand said related display thing of said 1st display mode was assignedAbout limited goods which access said server and form said some of goods of plurality which can be ordered. this -- limited goods which make a part being specifiedrespectively and to a display of said related display thing of said 1st display mode. An address of said screen which specifies said goods specified by said assigned specific information linksand a specific directory in said recording medium links to a display of said related display thing of said 2nd display modeand under said specific directoryA recording medium characterized by what said goods themselves specified by said specific information to which said related display thing of said 2nd display mode was assigned are recorded for.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention relates to the recording medium and merchandise ordering method which are used when a user orders goods via a

network and a deviceand the recording medium with which the goods order program was recorded. In particularin the distribution service of the information on composition data etc.it is suitable for retrieving informationincluding eye music to receive distribution etc.off-line easily.

[0002]

[Description of the Prior Art]Much composition data is memorized in the database on the Internetand service which distributes desired composition data to a personal computer according to access from a user via a network is offered. For examplethere is "Mid Radio" (trademark of YAMAHA CORP.) and the composition data of about 7000 music is held. Drawing 12 is an entire configuration figure of a composition data distribution system. As for networkssuch as the Internetand 103electrohone and 102 are [a composition data distributing server and 105] the databases of composition data an accounting server and 104 a personal computer and 7 101 among a figure. As for 106a flexible magnetic disk and 108 are serial cables the loudspeaker of a personal computerand 107. For exampledialup connection of the personal computer 102 is made via a telephone line.

[0003]The composition data distributing server 104 is a WWW (World Wide Web) serverfor example. The database 105 is connected to the composition data distributing server 104. The accounting server 103 is managed by a credit companybanketc. It is connected to the network 7 and has the database which memorized the customer's accounting information. Although the composition data distributing server 104 distributes composition data according to the demand from the personal computer 102before distributionit transmits to an accounting server and carries out settlement processing of a priceconditions for paymentetc. of the composition data to distribute. The accounting server 103 accesses the personal computer 102and charges the user of the personal computer 102. The payment by a credit card pay and according to a prepaid card is made. The accounting server 103 tells having accessed the composition data distributing server 104 after the end of settlement processingand having ended accounting.

[0004]The composition data distributing server 104 takes out the file of the composition data of which distribution was required from the database 105and transmits to the personal computer 102. The personal computer 102 stores the distributed musical piece data file in the predetermined directory of a hard disk. The file of composition data is based on SMF (Standard MIDI File) form or an original format. Typicallyit consists of two or more sets of event data and timing data. There are note onenote-offa program changeetc. as event data. Timing data expresses the lapsed time from a front event.

[0005]When the sound source is built in the personal computer or the sound source device is connectedthis musical piece data file can be performed and it can be made to pronounce from the loudspeaker 106. Or a musical piece data file is copied to the flexible magnetic disk (FD) 107and it inserts in the electrohone 101 and performs. Or a musical piece data file is transmitted and performed to the electrohone 101 via the serial cable 108. . Do not make only a specific part pronounce in the electrohone 101 using the downloaded composition data. It can

learn by practicing by what is called "a minus one performance" or making only a specific part pronounce conversely or practice based on a specific part's key pushing directions can be performed.

[0006] By the way in order to search desired composition data out of much composition data the user needs to do typing of the track name to the text box of a screen. Or according to the searching step shown in the picture it takes the time and effort which chooses the search condition about desired composition data or carries out typing. It will take time before being obtained as a result of search. Depending on the inputted search condition it may be unable to narrow down to one music and it is necessary to choose one music from the music name list displayed on search results in that case. Therefore an unfamiliar user requires search time and since the increase in telex rate gold and connection fees is worrisome he cannot use distribution service easily.

[0007] As shown in drawing 5 mentioned later there are data for karaoke data for guitars data for electric piano etc. in composition data. Therefore if it searches without putting in on condition of a kind of data even if it is the composition data in which the track name agrees it may not be suitable for the electrophone or the sound source device which the user is using. Therefore whenever it searches composition data it is necessary to specify the kind of data. Thus extracting to the composition data which suited the apparatus to be used has the problem that a burden is placed on a user.

[0008]

[Problem(s) to be Solved by the Invention] An object of this invention is to provide the recording medium and merchandise ordering method which were made in order to solve the problem mentioned above and can choose goods from the goods which are off-line and fitted the user and a device and the recording medium with which the goods order program was recorded.

[0009]

[Means for Solving the Problem] In the invention according to claim 1 this invention When a user accesses a server on a network and orders goods A file for using for a merchandise ordering method which progresses to a procedure of an order from a display of a screen which specifies said goods The account of ** about limited goods which are the recorded recording media in which computer reading is possible access said server and form said some of goods of plurality which can be ordered. this -- two or more specific information which specifies limited goods which make a part respectively Or said two or more specific information and related information on a display thing are described by said file with a form in which a hyperlink is possible An address of said screen which specifies said goods specified as a display of said each specific information and/or said related display thing by said specific information links. Therefore since goods can be promptly ordered if goods can be chosen and a server is accessed before accessing a server by using a file recorded on this recording medium at the time of an order of goods While a process until it orders goods becomes easy network connection time can be shortened. Since it chooses from limited goods which form

some of all the goods currently treated by a server it becomes easy to choose goods suitable for a user. This recording medium may be a read-only thing like CD-ROM or may be a hard disk with a built-in computer.

[0010] In the invention according to claim 2 in the recording medium according to claim 1 said related display thing have two or more kinds of display modes showing the characteristic of goods specified by said each assigned specific information and to said each specific information. Said at least one related display thing in which said display modes differ is assigned information on said related display thing is described by said file with a form in which a hyperlink is possible and an address of said screen which specifies said goods specified by said specific information assigned to a display of said related display thing links. Therefore according to a display mode of a related display thing since the characteristic of goods can be known it becomes easy to choose goods suitable for a user.

[0011] On the invention according to claim 3 and in the recording medium according to claim 1 or 2 information on a display thing for network search is described by said file with a form in which a hyperlink is possible and an address of a screen which carries out network search of said goods to a display of said display thing for network search links. Therefore it becomes easy to begin network search about goods which are not published by file.

[0012] On the invention according to claim 4 and in a recording medium given in any 1 paragraph of claims 1 thru/or 3 information on a display thing for upgrade is described by said file with a form in which a hyperlink is possible and an address for downloading the new file which updated the contents of said file to a display of said display thing for upgrade links. Therefore also when contents published by file become old a file simply accessed and upgraded to a network can be obtained.

[0013] When a user accesses a server on a network and orders goods in the invention according to claim 5A step which is a merchandise ordering method which progresses to a procedure of an order from a display of a screen which specifies said goods and makes said file read from a recording medium of a statement to any 1 paragraph of claims 1 thru/or 4. Presenting of said specific information displayed as a step which displays said two or more specific information or specific information of said plurality and a related display on a screen. Or it has a step to which makes said screen where an address was linked without a step as which a related display is made to choose on said screen and presenting of said selected specific information or a selected related display require of said server display it on and a procedure of an order is made to follow it from said screen. Therefore the same operation as the invention according to claim 1 is done so.

[0014] When a user accesses a server on a network and orders goods in the invention according to claim 6A step which is the recording medium with which a goods order program which progresses to a procedure of an order from a display of a screen which specifies said goods was recorded and makes said file read from a recording medium of a statement to any 1 paragraph of claims 1 thru/or 4. Presenting of said specific information displayed as a step which displays said

two or more specific information or specific information of said plurality and a related display on a screen Or a step as which a related display is made to choose on said screen and presenting of said selected specific information Or a goods order program for making a computer perform a step to which makes said screen where an address was linked to a selected related display require of said server display it on and a procedure of an order is made to follow it from said screen is recorded. Therefore a goods order program which does so the same operation as the invention according to claim 1 can be provided.

[0015] When a user accesses a server on a network and orders goods in the invention according to claim 7 From a display of a screen which specifies said goods are a commodity order device which progresses to a procedure of an order and A recording medium given in any 1 paragraph of claims 1 thru/or 4 A reading means to which said file is made to read from said recording medium and said two or more specific information Or presenting of said specific information displayed as a display control means which displays specific information of said plurality and a related display on a screen Or an input control means as which a related display is made to choose on said screen and presenting of said selected specific information Or it has a hyperlink control means to which makes said screen where an address was linked to a selected related display require of said server display it on and a procedure of an order is made to follow it from said screen. Therefore the same operation as the invention according to claim 1 is done so.

[0016] When a user accesses a server on a network and orders goods in the invention according to claim 8 A file for using for a merchandise ordering method which progresses to a procedure of an order from a display of a screen which specifies said goods The account of ** two or more specific information which is the recorded recording media in which computer reading is possible and specifies two or more goods respectively and related information on a display thing With a form in which a hyperlink is possible it is described by said file and said related display thing Have the 1st and 2nd display mode at least and to said each specific information. Said specific information to which said at least one related display thing in which said display modes differ is assigned to and said related display thing of said 1st display mode was assigned About limited goods which access said server and form said some of goods of plurality which can be ordered. this -- limited goods which make a part being specified respectively and to a display of said related display thing of said 1st display mode. An address of said screen which specifies said goods specified by said assigned specific information links and a specific directory in said recording medium links to a display of said related display thing of said 2nd display mode Said goods themselves specified under said specific directory by said specific information to which said related display thing of said 2nd display mode was assigned are recorded. Therefore the same operation as the invention according to claim 1 is done so by using a file recorded on this recording medium for an order of goods. In addition it can perform simply accessing goods which the goods themselves are recorded on a recording medium and

recorded on a recording medium by choosing said related display thing of said 2nd display mode under a directory of this product.

[0017]

[Embodiment of the Invention]Drawing 1 is an entire configuration figure of the composition data distribution system for describing an embodiment of the invention. This embodiment can perform selection of desired composition data off-line which is not connected to a network when searching and downloading desired composition data from the composition data accumulated in the distributing server at a composition data distribution site.

[0018]As for one reading section and 3 are hypertext file storing parts a hypertext treating part and 2 among a figure. 4 is a communication control part and is connected to a distributing server via the network 7. 5 is a distribution composition data storage parts store and 6 is an audition part. The above is the functional constitution of the client apparatus of the personal computer 102 grade shown in drawing 12. 8 -- as for the distribution musical piece database Management Department and 12a music visual inspection funiculus and a display screen preparing part and 10 are [the audition musical piece database Management Department and 14] audition musical piece databases a distribution musical piece database and 13 the data storage part for display screen creation and 11 a communication control part and 9. The above is the functional constitution of a composition data distributing server.

[0019]A hypertext is used by the Web page of WWW (World Wide Web). In a document it has the linked document structure by defining correlation with other data as text data still picture information dynamic image data voice data etc. It has the function of the hyperlink which ties up the hypertexts at the place distant via the network. In HTML (Hyper Text Markup Language) it is specified by the set of the tag of <AHREF=" link destination URL"> and the tag of . Here URL (Uniform Resource Locator) is the method (protocol name) of accessing an information resource on the Internet and a character string which specifies a kind of address (hierarchy organization shows a path and a search part under the name of a server) of an information resource. By specifying a link destination using URL a hyperlink can be stretched to the information resource which a server has. Although it changes with software of a server the program name and variable of the common Gateway interface (CGI:Common Gateway Interface) are given to the bottom of the heap of this URL for example.

[0020]The hypertext file storing part 3 is a local storage parts store of a client side and has memorized the music list described according to hypertext format. Read-only CD-ROM (Compact Disk-Read Only Memory) may be sufficient. XML (Extensible Markup Language) PDF (Portable Document Format) etc. other than HTML which were mentioned above are one of those can be described according to hypertext format. According to this embodiment PDF is used for the music list mentioned above. What is necessary is to open an HTML file by "Acrobat (registered trademark)" which is the software of Adobe Systems and just to save it by a PDF file for example in order to create a PDF file simply. A PDF file is a

document file which can be read by "Acrobat" or "Acrobat Reader." A screen display near the printed matter of paper is possiblea page is attached and the text browsing in a document is also possible.

[0021]This music list out of all the composition data downloadable from a distributing server. The list of two or more arrangement shows eye music of the kind of data used with specific electrohonea sound source deviceetc.and two or more composition data suitable for the model of electrohone with a track namean artista composera songwriteretc. Since the composition similar to the "book of song titles and code numbers" of karaoke is takeneven if many eyes music are arrangedsearch by a user is easy. The link is stretched by URL of the profile screen 9b in the music visual inspection funiculus and the display screen preparing part 9 by the side of the server mentioned later which specifies composition dataand eye each music requires that this screen should be transmitted to a server. URL of the profile screen 9b is set as that to which the peculiar number (ID or file name) corresponding to composition data was given.

[0022]The reading section 2 reads the music list memorized by the hypertext file storing part 3and outputs it to the hypertext treating part 1. The hypertext treating part 1 displays a hypertext on the screen of a display for indication according to the screen control information in a text. A user searches desired eye musiclooking at two or more eyes music of a display screen. By clicking a display [of the request on a screen / music]eye music is chosen eventually and transmits URL of the link destination related with eye this music to the network 7 via the communication control part 4. This URL is URL of "profile screen" 9b which specifies the composition data explained previously.

[0023]The hypertext treating part 1 transmits directions of an audition demanda distribution requestthe track name search by on-linetrack name selectionetc. to a music visual inspection funiculus and the display screen preparing part 9 to the server side as usual again via the communication control part 4the network 7and the communication control part 8. Explanation is omitted about the procedure between the fee collection servers 103 shown in drawing 12. A music visual inspection funiculus and the display screen preparing part 9 make eye music search using the display screen of a hypertext. It has a function which creates a display screen from the data storage part 10 for display screen creation using the display material for display screen formation containing the all-songs eye data stored in the distribution musical piece database. For exampleafter accessing the top page screen 9a and completing searchit goes to the search-results screen 9cnext jumps to the order screen 9d. The function jumped on the profile screen 9b may be givenand it may be made for the order screen 9c to serve as a profile screen.

[0024]Thenprocessing is once passed to the fee collection server 103 shown in drawing 12and it goes to the download screen 9e after the end of settlement of accounts. Thenprocessing is moved to the distribution musical piece database Management Department 11the composition data of chosen eye music is picked out from the distribution musical piece database 12and the distribution

composition data storage parts store 5 is made to download via the communication control part 8 the network 7 and the communication control part 4. If the "audition" button on a display screen is clicked during search of eye music The audition musical piece database Management Department 13 starts the composition data for an audition chosen from the audition musical piece database 14 is taken out it transmits to the cache memory of the audition part 6 via the communication control part 8 the network 7 and the communication control part 4 and composition data is made to perform.

[0025] The function of the communication control part 4 and the hypertext treating part 1 is performed among a figure with the WWW browser software which operates on the operating system of a personal computer. According to this embodiment PDF is used for the hypertext file. Therefore Acrobat "Acrobat Reader" mentioned above besides WWW browser software in the personal computer is installed in the personal computer. Since a music list extracts only eye music of composition data suitable for a specific model etc. and is edited its file capacity is small. The audition part 6 can be performed by installing the software of the "Mid Radio" (trademark of YAMAHA CORP.) player.

[0026] In drawing 1 although the data storage part 10 for display screen creation by the side of a server the distribution musical piece database 12 and the audition musical piece database 14 are illustrated as another memory storage it is good also considering these as a database of one. Audition composition data may process and create the composition data obtained from the distribution musical piece database. It may be made to carry out coordinated operation via the network 7 by making a server provided with each database into a separate server. Using a WWW server as a server the function of a music visual inspection funiculus and the display screen preparing part 9 the musical piece database Management Department 11 and the audition musical piece database Management Department 12 What is necessary is just to make Gateway process using a common Gateway interface (CGI: Common Gateway Interface).

[0027] Next in the embodiment shown in drawing 1 the directions for the composition of the music list stored in the hypertext file storing part 3 and this music list are explained. Eye music of composition data suitable for a specific product is beforehand extracted out of the composition data accumulated in the distributing server a music list is created and it stores in the recording medium suitable for distribution of CD-ROM etc. This hypertext file is attached to the specific product of electrophone or the specific product of a sound source device and a user is provided with it. It is made to download from the server apparatus on a network and provides for a user. It can be used in the state where it is stored in CD-ROM and also may install and use for the hard magnetic disk of a personal computer. A hypertext file considers it as a PDF file as explained previously and also it may be created in HTML (Hyper Text Markup Language) which is a creation declinable word word of a web page. Even in this case the arrangement of a music list is good to arrange so that it may become list form.

[0028] A user uses a personal computer reads the file stored in CD-ROM and

searches eye music of desired composition data off-line. Link to the operation which chooses the display thing of eye music of the composition data of a request to download and start WWW browser software automatically the Internet is made to access and URL of the profile screen 9b which carries out a hyperlink is accessed. If the prescribed position on this screen is clicked it will jump to the order screen of the specified composition data. WWW browser software is started previously and may already be connected to the Internet. When using the downloaded composition data for electrohone first it downloads in a personal computer and the downloaded composition data is loaded to electrohone via a dismountable recording medium or is loaded via serial interface such as MIDI.

[0029] Drawing 2 is an explanatory view of the link structure of the hypertext screen created and transmitted by the link structure of the display screen of the music list memorized by the hypertext file storing part 3 of drawing 1 the music visual inspection funiculus of drawing 1 and the display screen preparing part 9. About some display screens it has illustrated to drawing 3 – drawing 7. In drawing 2 the item which attached the underline shows the item which clicks a display and is only chosen or by which a drop down indication of two or more choices is given under a text box. The item enclosed with a frame is an item in which a user does typing to a text box. It jumps to the following display screen on condition of the item inputted into the item and text box which were related with the display by clicking the display mentioned above the display relevant to this display or the display which shows advance.

[0030] The top page of the music list memorized by the hypertext file storing part 3 It is the music list cover screen 21 and if either of the displays of a Japanese music menu and Western music menu and an operation manual is clicked it will jump to the search input screen 22 of Japanese music the search input screen 23 of Western music and an operation manual (a graphic display is omitted) (refer to drawing 11). In the search input screen 22 of Japanese music 50 sound table is displayed about a track name an artist a songwriter and a composer respectively. By clicking the display of the initial of one of categories it jumps in the following stage. About the search input screen 23 of Western music if the point that a number table and an alphabet table are displayed instead of 50 sound table is removed it is the same.

[0031] When an initial is chosen from 50 sound tables of a track name in the search input screen 22 of Japanese music it jumps to the page 24 (refer to drawing 3) of the beginning of the song-title-order selection initial which is the first page that has the selected initial in two or more pages put in order by song title order. A track name and other information are displayed within the limit of one line and are arranged in the column direction. If the display of the selection button relevant to a display or this of each track name is clicked it will jump on the profile screen 31 (refer to drawing 7) by the side of the distributing server linked to this display. Here if a "price" display is clicked it will jump to the order screen 32. When an initial is chosen from 50 sound tables of an artist a songwriter and a composer it jumps in the Japanese music search input screen 22 to the first pages 25–27 that have the

selected initial in two or more pages put in order in order of the name of each category.

[0032]As two or more PDF filesit is made for the music list mentioned above to lead to a low-ranking hierarchy's page by a link functionand also it can also make the whole one PDF file. When the whole is made into one PDF fileor when song title orderthe order of an artist namea songwriter nameand the order of a composer name are made into one PDF filerrespectivelypage number can be specified and an applicable page can also be searched.

[0033]The display screen which is created by the music visual inspection funiculus and the display screen preparing part 9 by the side of a serverand is transmitted to a client side on the other hand begins from the top screen 28 (refer to drawing 4) of a distributing server. The direct entry of a track name or the artist is carried out to a text boxand the search-results screen 30 (refer to drawing 6) is made to jump him in the top screen 28. Usuallya "detailed search" button is clicked and it jumps to the search input screen 29 (refer to drawing 5).

[0034]in the search input screen 29 -- the kind of datamodel selectiona genrea track namean artista composerand a songwriter -- it sings and the item of **** is inputted. If two or more items are chosenit will refer to and conditions. Display order and the display number are the inputs for choosing the display condition of a search-results output list. 30 is a search-results screen (refer to drawing 6). If the "price" display relevant to the display of eye each music in a screen is clickedit will jump to the order screen 32. If the "details" button relevant to the display of eye each music is clickedit will jump on the profile screen 31.

[0035]Only eye music is expressed as the profile screen 31 (refer to drawing 7). A track name is the samesince composers etc. may differthese are distinguished and the saying [music] term is used. Howeverseveral composition data in which eye the same music also differs in an artist (a singera player)a kind of dataor a model etc. may exist. Even in such a casethe mark which shows that one of them is a thing under present search is displayed. The profile screen 31 where marks differ is dealt with as the profile screen 31 which is different even if other display information is the same. That isthe numbers peculiar to composition data given to URL of this display screen as a variable differ.

[0036]In the retrieval picturewhen conditioning of a modela kind of dataand the artist is carried outor when off-line search is carried out by a music listthe mark is given to eye music of the direction which suited the search condition. When there is no conditioningthe mark is given to eye one music on predetermined priority conditions. If eye music of the direction which is not chosen is clicked on this screenthe composition data to choose can be changed. If a "price" display is clicked on the profile screen 31it will jump to the order screen 32. a trade namea priceetc. are expressed as this screen -- "a purchase stop"the "following procedure"and "redisplay" -- "-- others -- there are buttons such as purchase" of goods. When two or more composition data is purchasedthe goods displayed on this order counter will increase in number.

[0037]On drawing 3 – drawing 6it explains supplementarily simply. Drawing 3 is a

figure showing one example of the page 24 of the beginning of a song-title-order selection initial. A concrete track name an artist name a composer name and a songwriter name go into a hatching portion among a figure. It is displayed in the arrangement of the line unit for every track name. However each item may be displayed by several lines in the width of a line unit. This track name is chosen and a link destination is made to jump by aligning a pointer with right end "access" button and clicking a mouse. The display thing of the black triangle in which the jump to a Japanese music menu the top front page and the next page is shown is also displayed on this page.

[0038] Drawing 4 is a figure showing one example of the top screen 28. Various displays are made in the top screen. Here only the portion about the search input of eye music is illustrated. The radio button of the white round head given to the track name or the artist is clicked a sunspot is displayed a track name or an artist name is inputted into a text box and it is [GO! By clicking] button displayed. It jumps on the search-results screen 30 of drawing 2. If a "detailed search" button display is clicked it will jump to the search input screen 29 shown in drawing 2.

[0039] Drawing 5 is a figure showing one example of the search input screen 29 shown in drawing 2. The choice displayed when the triangular button in which drawing 5 (a) was given to the display screen and drawing 5 (b) was given to each list box among the display screen is clicked is shown. Drawing 6 is a figure showing one example of the search-results screen 30 shown in drawing 2. The conditions inputted in the search input screen 29 are shown as they are and if "search" button is clicked the retrieval can be carried out to an upper half. The list of two or more eyes music satisfy a search condition is displayed on a lower half. making a line into a display unit -- a check box an "audition" button a track name and an artist -- it begins to sing and the kind of data the "price" and the "details" button are displayed. If an "audition" button is clicked an audition will be possible and if a "continuation audition" button is clicked the continuation audition of eye music were chosen by the check box can be performed.

[0040] Drawing 7 is a figure showing one example of the profile screen 31 shown in drawing 2. In the example of the graphic display it is a case where the composition data of karaoke and a different kind of data of XG is in [same] music and an arrangement indication of the two music is given. Before long that to which the mark of the triangle seal was given is the musical piece chosen by search. If the "price" under the purchase of the upper part of a screen is clicked it will jump to the order screen 32 which orders the composition data of eye music to which the mark of the triangle seal was given. The example of an order screen omits a graphic display. The display thing to link to the button of artist search composer search and songwriter search and a score and other related products is also shown in this screen.

[0041] Drawing 8 is a flow chart for explaining operation of the embodiment shown in drawing 1. Drawing 9 is a flow chart which shows the details of the step of the off-line search S41 shown in drawing 8. With reference to drawing 8 the case where on-line search is performed is explained previously first. A client terminal

sets URL as the top screen of a distributing server and accesses the top screen 28 (refer to drawing 2 and drawing 4) of a distributing server. In S61 by the side of a server if it judges whether there was any access of a client terminal and it is when processing will be advanced to S62 and there will be nothing to it it returns to S61. In S62 it is judged whether URL which received is URL of the profile screen 31 or it is URL of a top screen. At the time of other URL it advances to the processing corresponding to the URL.

[0042] Now since URL is URL of the top screen 28 processing is advanced to S64. Hereafter about the response of a client apparatus explanation is omitted to S66. The HTML file of a top screen is transmitted in S64. In a client apparatus the top screen 28 (refer to drawing 2 and drawing 4) is displayed. The HTML file of a search input screen is transmitted in S65. In a client apparatus the search input screen 29 (refer to drawing 2 and drawing 5) is displayed.

[0043] The HTML file of a search-results screen is transmitted in S66. In a client apparatus the search-results screen 30 (refer to drawing 2 and drawing 6) is displayed. On this screen when the user of a client apparatus chooses the purchase of the composition data of eye specific music advance processing to processing S67 but. When a detailed selection button is clicked processing is advanced to S63 and the HTML file of the profile screen 31 (refer to drawing 2 and drawing 7) of eye specific music is transmitted. Henceforth it is the same as that of the case where off-line search is carried out.

[0044] Off-line search is explained with reference to the flow chart of drawing 9. In S81 if the hypertext file of the music list memorized by CD-ROM is read the music list cover screen 21 (refer to drawing 2 and drawing 11) will be displayed first. All over a screen the selection button of a "Western music menu" a "Japanese music menu" and an "operation manual" is displayed. In S82 it is detected whether either of the selection buttons had a click. Processing is repeated when not detected. When a "Western music menu" is clicked processing is advanced to S83 and when a "Japanese music menu" is clicked processing is advanced to S84.

[0045] In S83 the Western music search input screen 23 of drawing 2 is displayed. All over a screen 0-9 (as opposed to a track name) and the alphabet are displayed in each category of a track name an artist a songwriter and a composer. In S85 it judges whether the click of the initial was detected about one of categories when detected processing is advanced to S86 and when not detected processing is repeated. In S86 the page of eye music which is the initial in which the name of each category was chosen is displayed. In S85 when the click of the alphanumeric character of a track name is detected the page 24 of the beginning of the song-title-order selection initial shown in drawing 2 and drawing 3 and the same page for Western music are displayed.

[0046] As mentioned above in off-line search the output form of displaying the page of an applicable music list using a link is taken. Retrieval by keyword can be used depending on software. As shown in drawing 3 the selection button is displayed on eye each music as "access." In S89 it judges whether the click of "access" button was detected when detected processing is advanced to S90 and when not

detected detection processing is repeated. Since the hyperlink is stretched by "access" button a WWW browser software program starts and URL is transmitted to a network.

[0047] It returns to S42 of drawing 8 and explanation is continued. It will be eventually received by the distributing server and URL transmitted from the client apparatus will detect access from a client in S61. In S62 this URL accesses the profile screen 31. Therefore processing advances to S63 and the HTML file of the profile screen 31 of eye specific music is transmitted. In S42 of a client apparatus the profile screen 31 (refer to drawing 2 and drawing 7) of eye specific music is displayed based on the HTML file which received.

[0048] In S43 it is judged whether the click was detected on the screen. When a "price" is clicked processing is advanced to S44. Explanation is omitted about the time of other buttons being clicked. Detection processing is repeated when a click is not detected. A purchase request is transmitted in S44. In S67 of a distributing server when it judges whether a certain demand was received and a purchase request is received processing is advanced to S68 and when other demands are received processing according to it is performed. Reception is repeated when not receiving a demand.

[0049] The HTML file of an order screen is transmitted in S68. In S45 of a client apparatus the HTML file of an order screen is received and the order screen 32 (refer to drawing 2) is displayed. In S46 if a payment method is chosen another necessary information is inputted and the "next" is clicked it will be transmitted. The payment by a credit card and the payment by a prepaid card are prepared for the payment method. In S69 by the side of a distributing server it judges whether a payment method and necessary information were received when it receives processing is advanced to S70 and when not receiving reception is repeated. In S70 processing is passed to a fee collection server and it waits for the completion of settlement of accounts.

[0050] The HTML file of a settlement-of-accounts screen is received and displayed from a fee collection server and settlement of accounts is made to complete by performing a predetermined input in S47 of a client apparatus. The HTML file of a download start screen is transmitted in S71 by the side of a distributing server. When compressing composition data and transmitting the menu (for example LZHZIP) of the compression format is made to display and select. In S48 of a client apparatus the HTML file of a download start screen is received and displayed and download is required. In S72 of a distributing server it judges whether a download request occurs when it is processing is advanced to S73 and when there is nothing decision processing is repeated. In S73 specific composition data is downloaded and it returns to the first processing. The downloaded specific composition data is received and memorized in S49 of a client apparatus. In S50 when not terminating distribution service it returns to S41 and processing is repeated.

[0051] In the explanation mentioned above the music list which the hypertext file storing part 3 of drawing 1 is made to memorize chose only eye music were

suitable for a specific model and kind of dataand was created. And distinction on an order is not carried out [music / were published by this music list / especially]. Howeverthe distinction on an order can also be displayed in between [music].

[0052]Drawing 10 is an explanatory view of a music list for describing a 2nd embodiment of this invention. Every page is the same although the page 24 of the beginning of the selection initial of song title order shown in drawing 3 is diverted and illustrated. In drawing 10 (a)the display position of "access" button is divided into three placesand is properly used by three kinds. the line of eye each music -- for beginners -- it is [middle-class person] suitable and "access" button is given to at least one of the sequences for upper persons. Although a user may use the downloaded composition data as a model of practicea user's playing ability is various. Thereforean upper person needs the abundant composition data of a playing expressionand a beginners' class person needs easy composition data.

Howeverthe difficulty of the musical piece is not clear only by seeing a music list.

[0053]Thereforewhen creating a music listdifficulty is judged about eye each music and the display position of "access" button is changed. By this displaythe user can search eye music balanced the performance leveland can purchase and download that composition data. If the composition data of difficulty which is different in eye one music is created and it accumulates in the distribution musical piece databaseit will be still more desirable and two or more "access" buttons will be displayed on the distributing server side in this case at eye one music. Although the display position of "access" button was changeddisplay modessuch as a color of "access" buttonshapea character to displayare changedand it may enable it to distinguish in the example of a graphic display.

[0054]On the other handin drawing 10 (b)the display position of "access" button is divided into two placesand is properly used by two kinds. One is displayed under "CD-ROM to installation"and another side is displayed under "a server to download." CD-ROM is made to memorize a music listit is attached to productssuch as electrohoneand is distributed to a user in many cases. In this casetwo or more musicthe same CD-ROM can be made to be able to memorize the composition data for samplesand can be provided with it. A user supplies favorite composition data to electrohone via a flexible magnetic disk or a serial cable from CD-ROM suitably. In this caselooking for desired composition data requires time and effortlooking at the directory of CD-ROM.

[0055]Howevercomposition data can be easily copied to a hard disk or a flexible magnetic disk from CD-ROM by publishing also about the composition data memorized by CD-ROM on the music listand clicking an "access" button. URL of the hyperlink related with "access" button is not restricted to the server through a network. What is necessary is to set up this URL under the predetermined directory of the hard disk of a personal computerand just to create the music list. Instead of changing the display position of "access" buttondisplay modessuch as a color of "access" buttonshapea character to displayare changedand it may enable it to distinguish also in this example.

[0056] Since the music list mentioned above is distributed with the purchase of electrohone the method of making it correspond to the new song put on the market after that is needed. Drawing 11 is an explanatory view of a music list for describing a 3rd embodiment of this invention. It may be any page although the music list cover screen 21 shown in drawing 2 is diverted and illustrated. A new song accesses the retrieval page of a distributing server and should just carry out on-line search. Therefore if the "network search" button is also displayed and this button is clicked the top screen 28 or the search input screen 29 of the distributing server specified as the hyperlink point can be made to jump. However it will be on-line search.

[0057] Here since a music list is a PDF file it is easily downloadable from a server. Therefore what is necessary is just to upload the music list reformed and upgraded for every model or kind of data in the distributing server side. "Download of new music list" button is displayed so that the music list in which the user was reformed also in this case can be downloaded easily. What is necessary is to associate URL of the start screen for downloading a new music list by HTTP or FTP and just to carry out a hyperlink to this display.

[0058] In the explanation mentioned above the file of MIDI data was illustrated as composition data. However it may be the sampled data of musical tone or a sound. In that case it is preferred to consider it as the data of MP3 (MPEG1 Audio Layer3) etc. by which audio compression was carried out. In the explanation mentioned above composition data was downloaded via the storage parts store of a personal computer. If the function of the hypertext treating part 1 which replaced with this and provided the communication interface for network connection in electrohone and was shown in drawing 1 is given directly it can connect with the distributing server on the network 7 and composition data can be downloaded. It can replace with a personal computer and the portable telephone the fixed-line telephone machine the television or the game machine which has an Internet connectivity function can also be used. In this case also in these devices it can perform using the downloaded composition data.

[0059] The explanation mentioned above explained the example applied to the distribution service of composition data. Besides composition data or voice data however still pictures such as score data a photograph and pictures in the so-called purchase of information merchandises which can be distributed on a network such as video such as a movie game software news and statistical materials and digital contents ** in order to search the information merchandise an embodiment of the invention can be used. Also in the service which orders not only distribution service but goods common on a network in an order of the product in order to search the product an embodiment of the invention can be used.

[0060] In the explanation mentioned above the music list which the hypertext file storing part 3 is made to memorize chose only eye music were suitable for a specific model and kind of data and was created. However it is not necessary to limit the kind of goods recorded on the local hypertext file depending on information merchandises or commodity from the goods which can be searched

on-line. Or only some contents beforehand chosen from the goods which can be searched on-line by a user's likingagesexetc. depending on information merchandises or commodity can be publishedand the range of off-line search can also be made into what suited the user.

[0061]

[Effect of the Invention]This invention is in the state which chose desired goodsfor examplecomposition dataoff-line so that clearly from the explanation mentioned aboveSince it can progress to the procedure of an order of the composition datadesired goods can be looked for over many hoursand since it is not necessary to use a network during searchit is effective in the expense which search takes being substantially reducible. In additiononly with the composition data which is only some beforehand selected goods and fitted specific electrohone and sound source devicefor examplesince it is creatingthe filefor examplethe music listfor an orderit is effective in the ability to perform efficient search. Since the search with off-line differs in restrictions of time and data volume required for search from network searchit can be searched with a different method from network search. For examplethe technique near the technique which people were performing using the paper medium can be taken as it isand search which is easy to use for a user can be performed.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1]It is an entire configuration figure of the composition data distribution system for describing an embodiment of the invention.

[Drawing 2]It is an explanatory view of the link structure of the hypertext screen created and transmitted by the link structure of the display screen of the music list memorized by the hypertext file storing part 3 of drawing 1the music visual inspection funiculus of drawing 1and the display screen preparing part 9.

[Drawing 3]It is a figure showing one example of "page of the beginning of song-title-order selection initial" 24 shown in drawing 2.

[Drawing 4]It is a figure showing one example of "top screen" 28 shown in drawing 2.

[Drawing 5]It is a figure showing one example of "search input screen" 29 shown in drawing 2.

[Drawing 6]It is a figure showing one example of "search-results screen" 30 shown in drawing 2.

[Drawing 7]It is a figure showing one example of "profile screen" 31 shown in drawing 2.

[Drawing 8]It is a flow chart for explaining operation of the embodiment shown in drawing 1.

[Drawing 9]It is a flow chart which shows the details of the off-line searching step shown in drawing 8.

[Drawing 10]It is an explanatory view of a music list for describing a 2nd embodiment of this invention.

[Drawing 11]It is an explanatory view of a music list for describing a 3rd embodiment of this invention.

[Drawing 12]It is an entire configuration figure of a composition data distribution system.

[Description of Notations]

1 A hypertext treating part and 2 A reading section and 3 Hypertext file storing part4 A communication control part and 7 [A music visual inspection funiculus and a display screen preparing partand 10 / The data storage part for display screen creationand 11 / The distribution musical piece database Management Department and 12 / Distribution musical piece database] A network and 5 A distribution composition data storage parts store and 8 A communication control part and 9
